

## Patent Claims:

1. Method for the liquid cleaning of objects by means of a cleaning liquid that contains at least two components that under first designated conditions form a solubility gap and under second designated conditions form a mixture, containing the following steps:
- establishing the first designated conditions,
  - liquid cleaning the objects with the cleaning liquid that is under the first designated conditions,
  - establishing the second designated conditions, and
  - at least partially separating the contaminations from the liquid under the second designated conditions.
2. Method according to claim 1, whereby the one component is water and the other component is an organic component.
3. Method according to claim 2, whereby the organic component contains molecules having lipophilic and hydrophilic groups.
4. Method according to claim 2, whereby the cleaning liquid under the second designated conditions forms a two-phase system

having a continuous aqueous phase and therein droplets of an organic-rich phase.

5. Method according to claim 1, whereby the first designated conditions differ from the second designated conditions by the temperature.

6. Method according to claim 5, whereby the temperatures of the first designated conditions are lower than the temperatures of the second designated conditions.

7. Method according to claim 1, whereby the separation of contaminations from the liquid under the first designated conditions is effected by separation and/or filtration.

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